

Abstract

A method for controlling serum-glucose, serum insulin, and serum glycosylated hemoglobin levels in a subject is disclosed, the method including the steps of administering a pharmacologically effective serum-glucose lowering
5 amount of testosterone or the analogs, derivatives, and pharmaceutically acceptable salts, esters, amides, and prodrugs thereof, to the subject.

Also, there is a method disclosed for performing a testosterone test which includes the steps of obtaining serial serum samples, assaying the serum sample to determine both the concentration of total testosterone and/or its derivatives and
10 sex hormone binding globulin (SHBG) in the sample, and calculating the ratio of the concentration of total testosterone to the concentration of SHBG in the sample in order to obtain predictive and diagnostic information therefrom before and during subsequent treatment.